

Title (en)
THERMAL MANAGEMENT SYSTEM AND AN ELECTRIC VEHICLE INCLUDING THE THERMAL MANAGEMENT SYSTEM

Title (de)
WÄRMEMANAGEMENTSYSTEM UND ELEKTROFAHRZEUG MIT DEM WÄRMEMANAGEMENTSYSTEM

Title (fr)
SYSTÈME DE GESTION THERMIQUE ET VÉHICULE ÉLECTRIQUE COMPRENANT LE SYSTÈME DE GESTION THERMIQUE

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Application
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Priority
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Abstract (en)
[origin: EP3984792A1] A thermal management system (1) for controlling the temperature in a cabin (2) and an energy storage system (3) of an electric vehicle including a vehicle component (4). Also, an electric vehicle comprising the thermal management system (1). The system (1) comprises one heat exchanger (5) and one heater (6) arranged to heat the cabin (2) and to provide heat to the heat exchanger (5). The system (1) comprises a first valve (7) for thermal fluid, a first temperature sensor (8) and a control unit (9) arranged to determine (S4) if the cabin (2) or the energy storage system (3) is to be heated, based on a received temperature of the first temperature sensor (8), the temperature in the cabin (2) and in the energy storage system (3), to determine (S5) if there is excess heat in the thermal fluid, and to control (S6) the opening and closing of the first valve (7) so that the thermal fluid is provided to the heater (6) when there is excess heat in the thermal fluid and any of the energy storage system (3) and the cabin (2) is to be heated.

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